

RESPONSE TO OFFICE ACTION
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disposing a bottom surface of the ceramic puck over the composite cooling plate structure; and

low temperature brazing the gas conduit ring, the pair of cooling line rings, and the pedestal joining-ring to the bottom surface of the composite cooling plate structure, and the bottom surface of the ceramic puck to the composite cooling plate structure.

64. (Original) The method of claim 63 wherein the composite cooling plate structure is fabricated from a metal matrix composite material Al-Si-SiC.

65. (Original) The method of claim 64 further comprising, prior to the low temperature brazing step, the steps of:

welding a gas conduit to the gas conduit ring; and

welding a pair of cooling lines to the pair of cooling line rings.

66. (Original) The method of claim 65 further comprising the step of electron-beam welding a pedestal to the pedestal joining-ring.

67. (Original) The method of claim 66 further comprising, prior to the electron-beam welding step, the step of providing electrical connections to the ceramic puck and composite cooling plate structure.

68. (New) The method of claim 44, wherein the composite cooling plate structure further comprises:

a pedestal joining ring coupled to the puck and electron-beam welded to the pedestal.

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68. (New) The method of claim 68 further comprising:
brazing the pedestal joining ring to the puck.

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